

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P154683

Luminaire Tested: **TMU-F04-LED-E-U-T2-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P154683  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TMU-F04-LED-E-U-T2-8030  
Description: TALON MEDIUM LED AREA LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA  
Light Source: (28) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8538.8 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

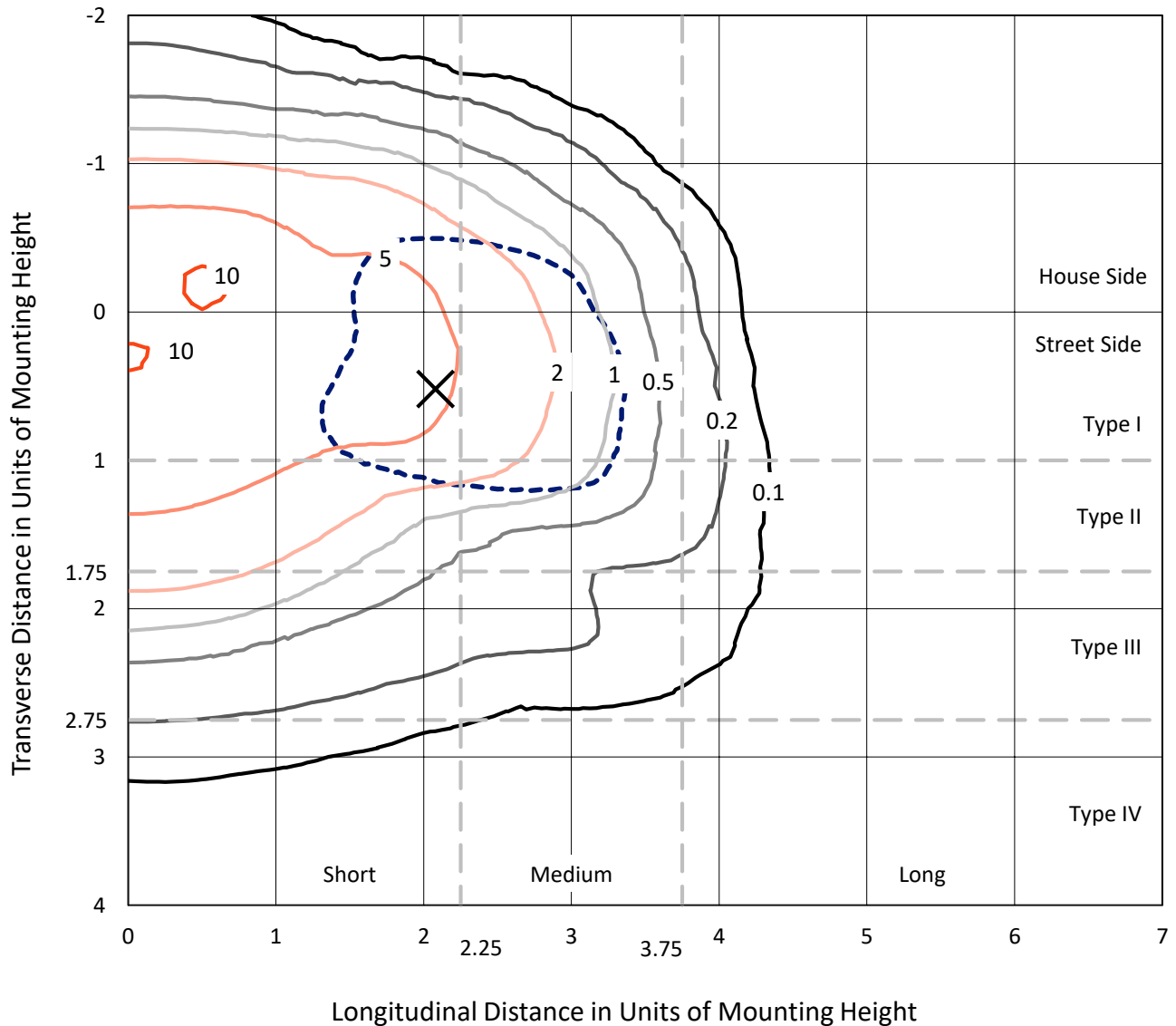
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

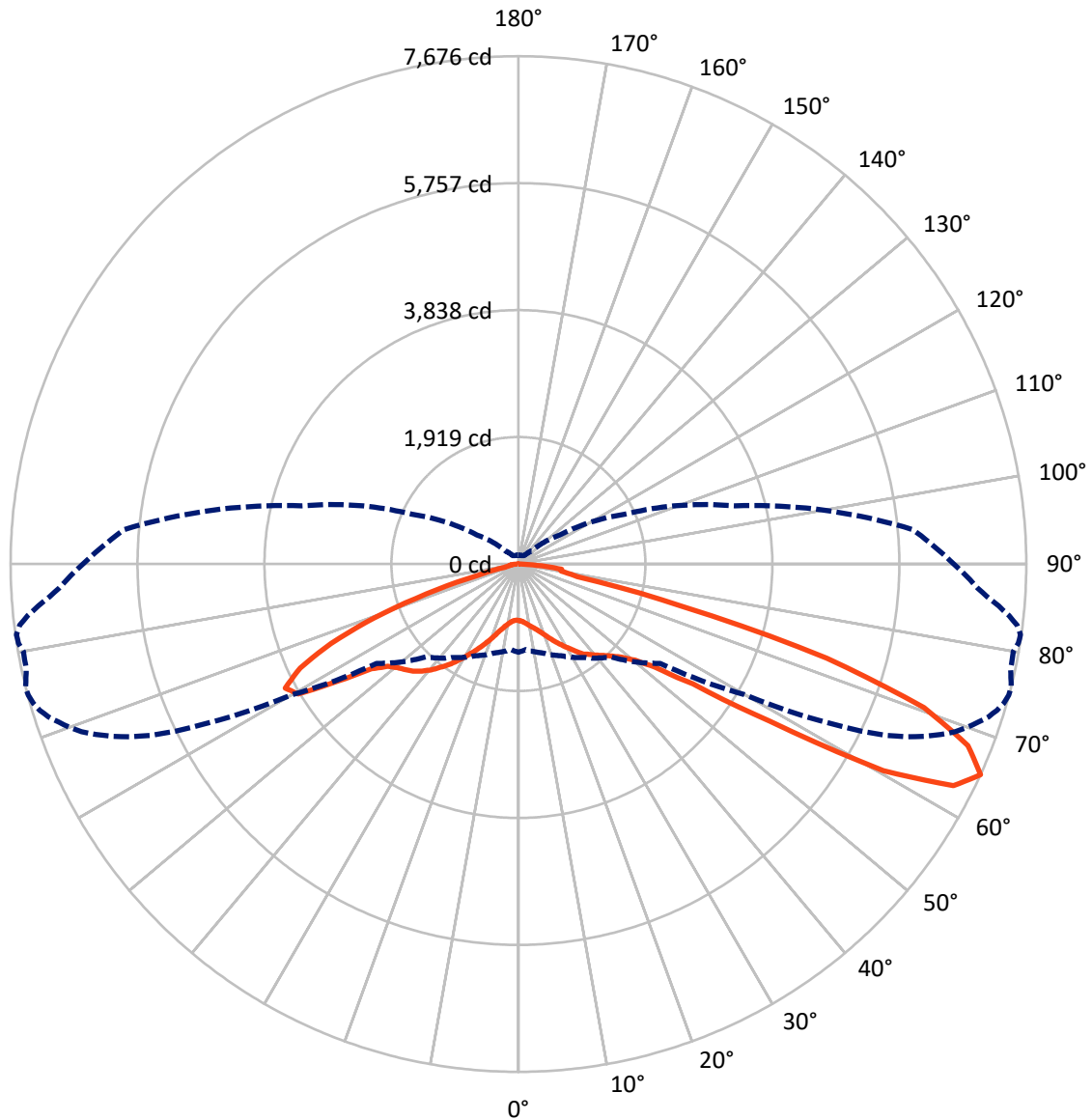
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2990.1   | 0.0    | 2990.1 |
|                    | % Fixture | 35.0     | 0.0    | 35.0   |
| <b>Street Side</b> | Lumens    | 5548.7   | 0.0    | 5548.7 |
|                    | % Fixture | 65.0     | 0.0    | 65.0   |
| <b>Total</b>       | Lumens    | 8538.8   | 0.0    | 8538.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 85.5   | 1.0       |
| 10°-20°   | 293.6  | 3.4       |
| 20°-30°   | 576.9  | 6.8       |
| 30°-40°   | 958.6  | 11.2      |
| 40°-50°   | 1408.5 | 16.5      |
| 50°-60°   | 1950.0 | 22.8      |
| 60°-70°   | 2327.5 | 27.3      |
| 70°-80°   | 823.1  | 9.6       |
| 80°-90°   | 115.0  | 1.3       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 8538.8 | 100.0     |
| 0°-180°   | 8538.8 | 100.0     |

**Coefficient of Utilization**



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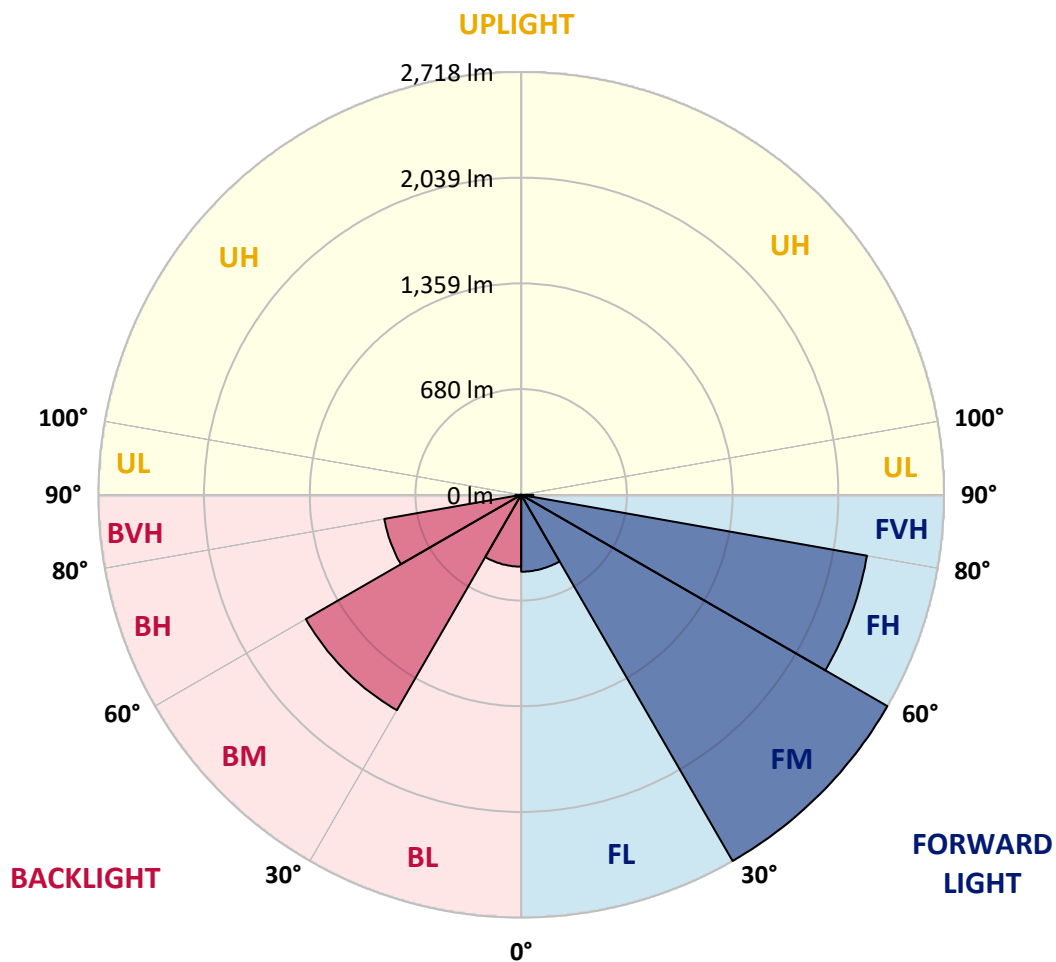
CATALOG NUMBER: TMU-F04-LED-E-U-T2-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 494.1  | 5.8       |                         |      |         |
| FM   | (30°-60°)   | 2718.5 | 31.8      |                         |      |         |
| FH   | (60°-80°)   | 2257.5 | 26.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 78.6   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 461.9  | 5.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1598.6 | 18.7      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 893.1  | 10.5      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 36.4   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  |
| 2.5°  | 890.9  | 891.8  | 890.0  | 889.0  | 886.2  | 881.6  | 877.9  | 874.2  | 874.2  | 874.2  | 871.4  |
| 5°    | 929.9  | 931.8  | 928.1  | 925.3  | 916.9  | 912.3  | 905.8  | 901.1  | 899.3  | 898.3  | 895.5  |
| 7.5°  | 979.1  | 976.4  | 970.8  | 968.9  | 962.4  | 952.2  | 940.1  | 930.8  | 930.8  | 929.9  | 930.8  |
| 10°   | 1028.4 | 1020.9 | 1018.2 | 1015.4 | 1005.2 | 992.2  | 978.2  | 968.0  | 967.1  | 966.1  | 963.4  |
| 12.5° | 1077.6 | 1074.8 | 1072.0 | 1061.8 | 1051.6 | 1031.2 | 1015.4 | 1005.2 | 1004.2 | 1005.2 | 1001.4 |
| 15°   | 1142.6 | 1136.1 | 1133.4 | 1115.7 | 1093.4 | 1071.1 | 1051.6 | 1042.3 | 1039.5 | 1040.5 | 1037.7 |
| 17.5° | 1192.8 | 1192.8 | 1186.3 | 1166.8 | 1138.0 | 1107.3 | 1086.9 | 1081.3 | 1080.4 | 1080.4 | 1081.3 |
| 20°   | 1232.8 | 1231.8 | 1225.3 | 1209.5 | 1175.2 | 1144.5 | 1134.3 | 1132.4 | 1131.5 | 1131.5 | 1134.3 |
| 22.5° | 1255.1 | 1253.2 | 1250.4 | 1232.8 | 1205.8 | 1185.4 | 1186.3 | 1191.9 | 1193.7 | 1195.6 | 1199.3 |
| 25°   | 1266.2 | 1263.4 | 1262.5 | 1250.4 | 1230.9 | 1228.1 | 1244.8 | 1259.7 | 1263.4 | 1267.1 | 1271.8 |
| 27.5° | 1284.8 | 1280.1 | 1282.0 | 1277.3 | 1272.7 | 1281.1 | 1315.4 | 1331.2 | 1334.0 | 1338.7 | 1341.4 |
| 30°   | 1335.9 | 1334.0 | 1341.4 | 1343.3 | 1347.0 | 1359.1 | 1390.7 | 1405.5 | 1412.1 | 1412.1 | 1425.1 |
| 32.5° | 1433.4 | 1434.3 | 1436.2 | 1455.7 | 1462.2 | 1470.6 | 1487.3 | 1499.4 | 1500.3 | 1501.2 | 1513.3 |
| 35°   | 1564.4 | 1570.0 | 1585.8 | 1602.5 | 1618.3 | 1617.4 | 1607.1 | 1613.6 | 1609.0 | 1614.6 | 1615.5 |
| 37.5° | 1729.8 | 1722.3 | 1745.6 | 1783.6 | 1807.8 | 1801.3 | 1755.8 | 1726.0 | 1734.4 | 1730.7 | 1727.9 |
| 40°   | 1857.0 | 1865.4 | 1910.0 | 1960.1 | 1978.7 | 1999.2 | 1939.7 | 1888.6 | 1881.2 | 1867.3 | 1858.9 |
| 42.5° | 2032.6 | 2033.5 | 2069.8 | 2106.9 | 2160.8 | 2205.4 | 2167.3 | 2093.9 | 2071.6 | 2054.9 | 2018.7 |
| 45°   | 2195.2 | 2192.4 | 2222.1 | 2267.6 | 2331.7 | 2395.8 | 2409.8 | 2329.9 | 2321.5 | 2291.8 | 2244.4 |
| 47.5° | 2303.9 | 2300.2 | 2320.6 | 2380.0 | 2484.1 | 2589.1 | 2646.7 | 2622.5 | 2606.7 | 2594.6 | 2520.3 |
| 50°   | 2377.3 | 2369.8 | 2393.1 | 2456.2 | 2572.3 | 2734.0 | 2884.5 | 2904.9 | 2898.4 | 2898.4 | 2851.0 |
| 52.5° | 2432.1 | 2432.1 | 2448.8 | 2499.9 | 2617.9 | 2819.5 | 3088.9 | 3192.0 | 3200.3 | 3209.6 | 3206.8 |
| 55°   | 2401.4 | 2406.1 | 2447.9 | 2522.2 | 2646.7 | 2878.9 | 3257.9 | 3483.7 | 3530.1 | 3569.1 | 3613.7 |
| 57.5° | 2296.4 | 2312.2 | 2368.0 | 2489.7 | 2654.1 | 2923.5 | 3445.6 | 3892.4 | 4023.4 | 4136.8 | 4313.3 |
| 60°   | 2143.2 | 2163.6 | 2244.4 | 2399.6 | 2599.3 | 2851.0 | 3511.5 | 4238.0 | 4446.1 | 4693.2 | 5154.0 |
| 62.5° | 1880.3 | 1900.7 | 1979.7 | 2134.8 | 2305.7 | 2573.3 | 3238.4 | 4289.1 | 4621.7 | 4971.9 | 5668.6 |
| 65°   | 1332.2 | 1299.6 | 1390.7 | 1530.0 | 1726.0 | 1985.2 | 2616.9 | 3946.3 | 4424.7 | 4899.4 | 5759.7 |
| 67.5° | 742.3  | 739.5  | 795.2  | 899.3  | 1086.9 | 1365.6 | 1803.2 | 3026.6 | 3467.0 | 4004.8 | 5061.1 |
| 70°   | 511.9  | 517.4  | 552.7  | 665.2  | 820.3  | 1060.9 | 1284.8 | 1900.7 | 2217.5 | 2582.6 | 3621.2 |
| 72.5° | 359.5  | 371.6  | 391.1  | 458.0  | 616.8  | 893.7  | 1312.6 | 1136.1 | 1294.1 | 1543.0 | 2177.5 |
| 75°   | 210.9  | 219.2  | 233.2  | 265.7  | 351.2  | 597.3  | 1359.1 | 998.7  | 998.7  | 1057.2 | 1317.3 |
| 77.5° | 130.1  | 130.1  | 138.4  | 151.4  | 186.7  | 292.6  | 968.0  | 1122.2 | 1090.6 | 1057.2 | 1060.0 |
| 80°   | 66.9   | 71.5   | 83.6   | 90.1   | 104.0  | 133.8  | 434.8  | 1047.0 | 1148.2 | 1216.0 | 1168.7 |
| 82.5° | 30.7   | 34.4   | 51.1   | 54.8   | 60.4   | 70.6   | 149.6  | 595.5  | 798.0  | 1050.7 | 1312.6 |
| 85°   | 15.8   | 15.8   | 26.9   | 33.4   | 36.2   | 32.5   | 54.8   | 240.6  | 364.2  | 555.5  | 869.5  |
| 87.5° | 2.8    | 2.8    | 4.6    | 5.6    | 8.4    | 7.4    | 9.3    | 13.9   | 23.2   | 25.1   | 26.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  |
| 2.5°  | 870.5  | 871.4  | 870.5  | 869.5  | 867.7  | 867.7  | 867.7  | 866.7  | 866.7  | 866.7  | 865.8  |
| 5°    | 895.5  | 891.8  | 892.8  | 890.9  | 890.0  | 889.0  | 890.0  | 888.1  | 886.2  | 887.2  | 886.2  |
| 7.5°  | 927.1  | 925.3  | 921.5  | 921.5  | 920.6  | 918.8  | 918.8  | 916.0  | 915.0  | 913.2  | 912.3  |
| 10°   | 962.4  | 957.8  | 959.6  | 957.8  | 958.7  | 955.0  | 953.1  | 951.3  | 949.4  | 949.4  | 950.3  |
| 12.5° | 998.7  | 997.7  | 994.9  | 993.1  | 993.1  | 990.3  | 991.2  | 990.3  | 987.5  | 986.6  | 983.8  |
| 15°   | 1035.8 | 1035.8 | 1033.0 | 1034.0 | 1033.0 | 1031.2 | 1029.3 | 1029.3 | 1027.5 | 1025.6 | 1026.5 |
| 17.5° | 1079.5 | 1079.5 | 1079.5 | 1079.5 | 1080.4 | 1077.6 | 1078.5 | 1076.7 | 1074.8 | 1078.5 | 1078.5 |
| 20°   | 1136.1 | 1139.9 | 1139.9 | 1138.9 | 1143.6 | 1140.8 | 1139.9 | 1144.5 | 1139.9 | 1146.4 | 1145.4 |
| 22.5° | 1201.2 | 1204.9 | 1204.9 | 1208.6 | 1209.5 | 1212.3 | 1214.2 | 1212.3 | 1216.0 | 1219.8 | 1219.8 |
| 25°   | 1273.6 | 1277.3 | 1280.1 | 1285.7 | 1288.5 | 1286.6 | 1287.6 | 1292.2 | 1294.1 | 1297.8 | 1301.5 |
| 27.5° | 1349.8 | 1350.7 | 1354.5 | 1361.0 | 1365.6 | 1367.5 | 1368.4 | 1375.8 | 1376.7 | 1378.6 | 1382.3 |
| 30°   | 1424.1 | 1433.4 | 1431.6 | 1439.9 | 1442.7 | 1445.5 | 1451.1 | 1453.9 | 1460.4 | 1464.1 | 1464.1 |
| 32.5° | 1511.5 | 1509.6 | 1517.0 | 1523.5 | 1528.2 | 1532.8 | 1537.5 | 1541.2 | 1544.9 | 1546.8 | 1556.0 |
| 35°   | 1620.1 | 1623.9 | 1623.9 | 1624.8 | 1635.9 | 1636.9 | 1640.6 | 1648.9 | 1651.7 | 1657.3 | 1661.0 |
| 37.5° | 1727.9 | 1721.4 | 1720.5 | 1720.5 | 1716.8 | 1719.5 | 1720.5 | 1721.4 | 1725.1 | 1726.0 | 1729.8 |
| 40°   | 1848.7 | 1840.3 | 1832.9 | 1828.2 | 1820.8 | 1810.6 | 1808.7 | 1804.1 | 1806.9 | 1805.9 | 1806.9 |
| 42.5° | 2014.0 | 1990.8 | 1973.2 | 1960.1 | 1945.3 | 1934.1 | 1925.8 | 1913.7 | 1905.3 | 1895.1 | 1893.3 |
| 45°   | 2224.9 | 2181.2 | 2151.5 | 2130.2 | 2108.8 | 2078.1 | 2060.5 | 2041.9 | 2025.2 | 2008.5 | 1994.5 |
| 47.5° | 2501.7 | 2455.3 | 2407.9 | 2368.9 | 2335.5 | 2286.2 | 2236.1 | 2208.2 | 2175.7 | 2146.9 | 2126.4 |
| 50°   | 2827.8 | 2772.1 | 2749.8 | 2695.0 | 2653.2 | 2578.9 | 2516.6 | 2471.1 | 2406.1 | 2362.4 | 2324.3 |
| 52.5° | 3161.3 | 3147.4 | 3135.3 | 3088.9 | 3039.6 | 2996.9 | 2942.1 | 2862.2 | 2796.2 | 2746.1 | 2668.0 |
| 55°   | 3615.6 | 3622.1 | 3617.5 | 3592.4 | 3574.7 | 3533.8 | 3511.5 | 3441.9 | 3412.1 | 3339.7 | 3257.9 |
| 57.5° | 4380.1 | 4432.2 | 4498.1 | 4524.1 | 4559.4 | 4526.0 | 4565.0 | 4612.4 | 4494.4 | 4535.3 | 4461.9 |
| 60°   | 5356.5 | 5595.3 | 5737.4 | 5912.0 | 6026.3 | 6186.1 | 6214.9 | 6256.7 | 6244.6 | 6267.8 | 6315.2 |
| 62.5° | 5952.9 | 6236.2 | 6508.4 | 6706.3 | 6918.1 | 7035.2 | 7176.4 | 7274.8 | 7377.0 | 7445.8 | 7426.3 |
| 65°   | 6128.5 | 6420.2 | 6667.3 | 6883.7 | 7073.3 | 7216.3 | 7347.3 | 7470.9 | 7564.7 | 7630.6 | 7669.7 |
| 67.5° | 5483.8 | 5864.7 | 6124.8 | 6378.4 | 6622.7 | 6773.2 | 6882.8 | 7002.7 | 7140.1 | 7254.4 | 7276.7 |
| 70°   | 4126.5 | 4697.9 | 5066.7 | 5370.4 | 5657.5 | 5860.0 | 6013.3 | 6124.8 | 6231.6 | 6313.4 | 6402.5 |
| 72.5° | 2580.7 | 3080.5 | 3502.3 | 3896.1 | 4200.9 | 4479.5 | 4608.7 | 4855.8 | 4823.3 | 4885.5 | 4952.4 |
| 75°   | 1546.8 | 1790.1 | 2022.4 | 2300.2 | 2459.9 | 2692.2 | 2734.0 | 2774.9 | 2753.5 | 2683.8 | 2735.8 |
| 77.5° | 1074.8 | 1114.8 | 1112.9 | 1097.1 | 1080.4 | 1039.5 | 986.6  | 957.8  | 938.3  | 910.4  | 921.5  |
| 80°   | 1081.3 | 994.9  | 863.0  | 725.5  | 599.2  | 515.6  | 482.1  | 482.1  | 516.5  | 565.7  | 615.0  |
| 82.5° | 1292.2 | 1200.2 | 1070.2 | 895.5  | 709.7  | 577.8  | 489.6  | 454.3  | 460.8  | 510.9  | 574.1  |
| 85°   | 871.4  | 891.8  | 782.2  | 715.3  | 566.7  | 441.3  | 369.7  | 300.1  | 265.7  | 274.0  | 310.3  |
| 87.5° | 31.6   | 38.1   | 13.9   | 18.6   | 13.0   | 11.1   | 11.1   | 12.1   | 8.4    | 10.2   | 9.3    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





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**CANDELA DISTRIBUTION (continued):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  |
| 2.5°  | 864.9  | 864.0  | 864.0  | 862.1  | 862.1  | 861.2  | 861.2  | 860.2  | 859.3  | 859.3  | 858.4  |
| 5°    | 885.3  | 884.4  | 882.5  | 881.6  | 879.7  | 879.7  | 878.8  | 877.0  | 877.0  | 875.1  | 874.2  |
| 7.5°  | 914.1  | 912.3  | 910.4  | 909.5  | 908.5  | 905.8  | 905.8  | 903.9  | 903.9  | 902.0  | 901.1  |
| 10°   | 948.5  | 946.6  | 944.8  | 945.7  | 942.9  | 942.0  | 940.1  | 940.1  | 937.3  | 936.4  | 936.4  |
| 12.5° | 985.6  | 984.7  | 984.7  | 981.9  | 981.0  | 980.1  | 976.4  | 976.4  | 976.4  | 974.5  | 975.4  |
| 15°   | 1025.6 | 1026.5 | 1023.7 | 1026.5 | 1025.6 | 1022.8 | 1022.8 | 1022.8 | 1019.1 | 1023.7 | 1020.0 |
| 17.5° | 1079.5 | 1082.3 | 1080.4 | 1081.3 | 1079.5 | 1079.5 | 1080.4 | 1079.5 | 1081.3 | 1081.3 | 1086.9 |
| 20°   | 1146.4 | 1147.3 | 1151.9 | 1150.1 | 1150.1 | 1149.1 | 1151.0 | 1151.9 | 1155.7 | 1153.8 | 1157.5 |
| 22.5° | 1219.8 | 1224.4 | 1225.3 | 1229.0 | 1229.0 | 1228.1 | 1230.0 | 1233.7 | 1235.5 | 1238.3 | 1237.4 |
| 25°   | 1303.4 | 1306.1 | 1309.9 | 1305.2 | 1312.6 | 1312.6 | 1314.5 | 1319.2 | 1320.1 | 1320.1 | 1326.6 |
| 27.5° | 1381.4 | 1388.8 | 1389.8 | 1394.4 | 1391.6 | 1393.5 | 1400.0 | 1402.8 | 1406.5 | 1406.5 | 1408.3 |
| 30°   | 1469.6 | 1472.4 | 1474.3 | 1479.9 | 1478.9 | 1479.9 | 1480.8 | 1485.4 | 1485.4 | 1490.1 | 1494.7 |
| 32.5° | 1560.7 | 1562.5 | 1564.4 | 1570.0 | 1571.8 | 1575.6 | 1573.7 | 1577.4 | 1582.1 | 1583.0 | 1585.8 |
| 35°   | 1669.4 | 1671.2 | 1673.1 | 1681.5 | 1682.4 | 1688.9 | 1690.7 | 1688.9 | 1696.3 | 1691.7 | 1696.3 |
| 37.5° | 1732.5 | 1740.9 | 1742.8 | 1748.3 | 1746.5 | 1751.1 | 1753.9 | 1757.6 | 1759.5 | 1763.2 | 1770.6 |
| 40°   | 1809.7 | 1812.4 | 1818.0 | 1820.8 | 1824.5 | 1825.4 | 1829.2 | 1832.0 | 1834.7 | 1843.1 | 1851.5 |
| 42.5° | 1888.6 | 1892.3 | 1895.1 | 1898.8 | 1903.5 | 1907.2 | 1910.0 | 1918.3 | 1920.2 | 1925.8 | 1941.6 |
| 45°   | 1984.3 | 1982.4 | 1983.4 | 1984.3 | 1986.2 | 1990.8 | 1999.2 | 2007.5 | 2013.1 | 2026.1 | 2039.1 |
| 47.5° | 2103.2 | 2091.1 | 2086.5 | 2079.1 | 2080.9 | 2091.1 | 2093.0 | 2106.9 | 2118.1 | 2130.2 | 2145.9 |
| 50°   | 2283.4 | 2250.9 | 2231.4 | 2211.9 | 2210.0 | 2215.6 | 2223.1 | 2237.9 | 2250.9 | 2266.7 | 2289.0 |
| 52.5° | 2586.3 | 2524.0 | 2485.0 | 2431.1 | 2416.3 | 2413.5 | 2407.9 | 2416.3 | 2420.0 | 2441.4 | 2483.2 |
| 55°   | 3199.4 | 3084.2 | 3009.9 | 2926.3 | 2848.3 | 2825.0 | 2780.4 | 2789.7 | 2780.4 | 2793.4 | 2855.7 |
| 57.5° | 4479.5 | 4387.6 | 4315.1 | 4208.3 | 4074.5 | 3932.4 | 3897.1 | 3751.2 | 3780.0 | 3863.6 | 3809.7 |
| 60°   | 6338.4 | 6305.0 | 6253.0 | 6201.9 | 6018.9 | 5915.7 | 5747.6 | 5729.0 | 5611.0 | 5612.0 | 5534.9 |
| 62.5° | 7378.9 | 7421.6 | 7390.0 | 7375.2 | 7365.0 | 7332.4 | 7248.8 | 7148.5 | 6998.0 | 6889.3 | 6729.5 |
| 65°   | 7676.2 | 7639.9 | 7605.6 | 7600.9 | 7598.1 | 7651.1 | 7663.2 | 7592.6 | 7456.0 | 7286.9 | 7103.0 |
| 67.5° | 7329.7 | 7309.2 | 7311.1 | 7272.1 | 7296.2 | 7388.2 | 7452.3 | 7432.8 | 7307.4 | 7103.0 | 6868.9 |
| 70°   | 6504.7 | 6464.8 | 6505.7 | 6556.7 | 6593.0 | 6645.9 | 6710.0 | 6725.8 | 6611.6 | 6401.6 | 6162.9 |
| 72.5° | 4870.6 | 4877.1 | 4916.2 | 4930.1 | 5076.0 | 5061.1 | 5118.7 | 4931.0 | 4848.4 | 4648.6 | 4526.0 |
| 75°   | 2563.1 | 2521.3 | 2629.9 | 2399.6 | 2304.8 | 2370.8 | 2185.9 | 2008.5 | 2045.6 | 2076.3 | 1855.2 |
| 77.5° | 905.8  | 847.2  | 747.8  | 707.9  | 589.0  | 498.9  | 407.8  | 367.9  | 346.5  | 335.4  | 321.4  |
| 80°   | 650.3  | 668.9  | 648.4  | 600.1  | 510.0  | 408.8  | 322.4  | 254.5  | 218.3  | 198.8  | 185.8  |
| 82.5° | 657.7  | 731.1  | 763.6  | 749.7  | 667.9  | 505.4  | 333.5  | 212.7  | 157.9  | 131.9  | 122.6  |
| 85°   | 353.0  | 386.5  | 371.6  | 313.1  | 281.5  | 168.1  | 115.2  | 77.1   | 65.0   | 59.5   | 54.8   |
| 87.5° | 13.9   | 11.1   | 9.3    | 9.3    | 10.2   | 11.1   | 9.3    | 10.2   | 9.3    | 9.3    | 9.3    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 87°    | 88°    | 89°    | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  | 853.7  |
| 2.5°  | 856.5  | 856.5  | 856.5  | 855.6  | 853.7  | 849.1  | 844.4  | 840.7  | 837.9  | 835.2  | 831.4  |
| 5°    | 873.2  | 871.4  | 871.4  | 871.4  | 864.0  | 856.5  | 850.0  | 843.5  | 837.9  | 833.3  | 829.6  |
| 7.5°  | 901.1  | 900.2  | 896.5  | 895.5  | 890.0  | 877.9  | 870.5  | 859.3  | 852.8  | 846.3  | 844.4  |
| 10°   | 934.6  | 933.6  | 932.7  | 931.8  | 924.3  | 912.3  | 903.0  | 892.8  | 883.5  | 874.2  | 864.9  |
| 12.5° | 973.6  | 972.6  | 971.7  | 968.9  | 966.1  | 959.6  | 949.4  | 938.3  | 927.1  | 907.6  | 897.4  |
| 15°   | 1021.9 | 1023.7 | 1021.9 | 1020.9 | 1019.1 | 1020.0 | 1013.5 | 997.7  | 980.1  | 955.0  | 933.6  |
| 17.5° | 1086.0 | 1084.1 | 1083.2 | 1086.9 | 1086.0 | 1090.6 | 1088.8 | 1068.3 | 1041.4 | 1001.4 | 964.3  |
| 20°   | 1156.6 | 1156.6 | 1160.3 | 1163.1 | 1171.4 | 1183.5 | 1177.9 | 1152.9 | 1103.6 | 1047.9 | 999.6  |
| 22.5° | 1241.1 | 1243.0 | 1246.7 | 1244.8 | 1257.8 | 1277.3 | 1279.2 | 1243.9 | 1179.8 | 1102.7 | 1034.9 |
| 25°   | 1329.4 | 1331.2 | 1327.5 | 1333.1 | 1354.5 | 1382.3 | 1387.9 | 1337.7 | 1253.2 | 1152.9 | 1064.6 |
| 27.5° | 1413.0 | 1414.8 | 1414.8 | 1422.3 | 1442.7 | 1490.1 | 1495.7 | 1439.9 | 1327.5 | 1196.5 | 1086.0 |
| 30°   | 1494.7 | 1502.2 | 1504.0 | 1505.9 | 1536.5 | 1602.5 | 1614.6 | 1533.7 | 1392.5 | 1229.0 | 1100.8 |
| 32.5° | 1597.8 | 1600.6 | 1604.3 | 1609.0 | 1644.3 | 1725.1 | 1725.1 | 1614.6 | 1434.3 | 1249.5 | 1103.6 |
| 35°   | 1708.4 | 1709.3 | 1717.7 | 1718.6 | 1768.8 | 1849.6 | 1833.8 | 1681.5 | 1464.1 | 1244.8 | 1083.2 |
| 37.5° | 1775.3 | 1779.0 | 1787.4 | 1798.5 | 1851.5 | 1965.7 | 1929.5 | 1739.1 | 1469.6 | 1214.2 | 1036.7 |
| 40°   | 1858.0 | 1865.4 | 1873.8 | 1884.9 | 1963.9 | 2083.7 | 2010.3 | 1775.3 | 1446.4 | 1153.8 | 967.1  |
| 42.5° | 1947.1 | 1957.4 | 1970.4 | 1990.8 | 2084.6 | 2187.7 | 2071.6 | 1780.9 | 1393.5 | 1086.0 | 884.4  |
| 45°   | 2047.5 | 2066.1 | 2080.9 | 2105.1 | 2211.0 | 2277.9 | 2108.8 | 1748.3 | 1326.6 | 996.8  | 796.1  |
| 47.5° | 2163.6 | 2178.5 | 2204.5 | 2230.5 | 2336.4 | 2339.2 | 2112.5 | 1685.2 | 1235.5 | 907.6  | 702.3  |
| 50°   | 2306.7 | 2315.9 | 2355.0 | 2370.8 | 2470.2 | 2403.3 | 2085.6 | 1599.7 | 1139.9 | 807.3  | 598.3  |
| 52.5° | 2497.1 | 2510.1 | 2560.3 | 2584.4 | 2655.0 | 2490.6 | 2047.5 | 1506.8 | 1030.2 | 694.9  | 491.4  |
| 55°   | 2873.3 | 2930.0 | 2965.3 | 3007.1 | 3052.6 | 2688.5 | 2030.8 | 1407.4 | 906.7  | 564.8  | 389.2  |
| 57.5° | 3929.6 | 3911.0 | 3989.0 | 4083.8 | 4082.9 | 3140.9 | 2131.1 | 1321.9 | 760.8  | 432.0  | 299.1  |
| 60°   | 5503.3 | 5520.9 | 5481.0 | 5537.7 | 5357.4 | 3702.0 | 2268.6 | 1231.8 | 596.4  | 321.4  | 228.5  |
| 62.5° | 6672.9 | 6570.7 | 6514.0 | 6447.1 | 6050.5 | 3763.3 | 2168.2 | 1047.0 | 433.8  | 225.7  | 175.6  |
| 65°   | 6949.7 | 6829.9 | 6708.2 | 6580.9 | 5982.6 | 3392.6 | 1779.0 | 768.3  | 280.6  | 155.1  | 139.3  |
| 67.5° | 6676.6 | 6484.3 | 6329.1 | 6198.2 | 5481.9 | 2812.0 | 1300.6 | 471.9  | 160.7  | 125.4  | 118.9  |
| 70°   | 5968.7 | 5756.0 | 5505.1 | 5358.4 | 4616.1 | 2072.6 | 833.3  | 254.5  | 123.6  | 111.5  | 108.7  |
| 72.5° | 4369.0 | 4194.3 | 3920.3 | 3752.2 | 3314.6 | 1259.7 | 465.4  | 143.1  | 115.2  | 106.8  | 103.1  |
| 75°   | 1701.9 | 1610.9 | 1496.6 | 1505.9 | 1344.2 | 557.4  | 210.9  | 123.6  | 112.4  | 105.0  | 101.3  |
| 77.5° | 292.6  | 285.2  | 263.8  | 263.8  | 300.1  | 203.4  | 140.3  | 124.5  | 111.5  | 103.1  | 96.6   |
| 80°   | 175.6  | 171.9  | 163.5  | 161.6  | 156.1  | 143.1  | 134.7  | 126.3  | 109.6  | 97.5   | 89.2   |
| 82.5° | 115.2  | 110.5  | 107.8  | 106.8  | 116.1  | 125.4  | 126.3  | 125.4  | 104.0  | 84.5   | 72.5   |
| 85°   | 49.2   | 49.2   | 49.2   | 50.2   | 66.9   | 101.3  | 104.0  | 111.5  | 85.5   | 66.0   | 52.0   |
| 87.5° | 8.4    | 10.2   | 10.2   | 11.1   | 12.1   | 22.3   | 27.9   | 36.2   | 28.8   | 27.9   | 25.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P154683

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**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 175°  | 180°  |
|-------|--------|-------|-------|
| 0°    | 853.7  | 853.7 | 853.7 |
| 2.5°  | 830.5  | 828.7 | 828.7 |
| 5°    | 827.7  | 825.9 | 826.8 |
| 7.5°  | 838.9  | 835.2 | 836.1 |
| 10°   | 859.3  | 855.6 | 853.7 |
| 12.5° | 885.3  | 880.7 | 880.7 |
| 15°   | 912.3  | 901.1 | 900.2 |
| 17.5° | 934.6  | 920.6 | 918.8 |
| 20°   | 959.6  | 941.1 | 938.3 |
| 22.5° | 982.9  | 957.8 | 954.1 |
| 25°   | 999.6  | 968.9 | 964.3 |
| 27.5° | 1007.0 | 970.8 | 967.1 |
| 30°   | 1012.6 | 971.7 | 966.1 |
| 32.5° | 1007.0 | 963.4 | 958.7 |
| 35°   | 976.4  | 929.0 | 926.2 |
| 37.5° | 923.4  | 870.5 | 866.7 |
| 40°   | 853.7  | 798.0 | 788.7 |
| 42.5° | 764.6  | 712.5 | 702.3 |
| 45°   | 678.2  | 618.7 | 614.1 |
| 47.5° | 585.3  | 528.6 | 531.4 |
| 50°   | 487.7  | 436.6 | 435.7 |
| 52.5° | 394.8  | 350.2 | 347.4 |
| 55°   | 311.2  | 279.6 | 276.8 |
| 57.5° | 246.2  | 229.5 | 226.7 |
| 60°   | 200.7  | 192.3 | 189.5 |
| 62.5° | 161.6  | 158.9 | 157.9 |
| 65°   | 134.7  | 134.7 | 134.7 |
| 67.5° | 117.1  | 118.0 | 118.0 |
| 70°   | 107.8  | 108.7 | 107.8 |
| 72.5° | 104.0  | 106.8 | 106.8 |
| 75°   | 101.3  | 103.1 | 99.4  |
| 77.5° | 99.4   | 100.3 | 93.8  |
| 80°   | 98.5   | 97.5  | 85.5  |
| 82.5° | 85.5   | 82.7  | 72.5  |
| 85°   | 78.0   | 59.5  | 50.2  |
| 87.5° | 39.9   | 27.9  | 21.4  |
| 90°   | 0.0    | 0.0   | 0.0   |

(END OF REPORT)